

PATENT COOPERATION TREATYPCT/PTO 22 JUN 2005

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT 2005 (PCT Article 36 and Rule 70) REC'D 07 APR 2005

(PCT Article 36 and Rule 70)

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		See Notificatio	on of Transmittal of International		
pplicant's or agent's file reference 38PCT 1640	FOR FURTHER ACTION	Preliminary Ex	Priority date (day/month/year)		
eternational application No. International filing date		nth/year)	08.01.2003		
CT/EP 03/14381	17.12.2003				
nternational Patent Classification (IPC)	or both national classification and IPC	•			
322F7/00					
Applicant					
NCO LIMITED et al.					
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This international preliminary	examination report has been pre	pared by this In	ternational Preliminary Examining		
Authority and is transmitted to	the applicant according to Article	5 00.			
2. This REPORT consists of a to	otal of 5 sheets, including this co	ver sheet.			
			ption, claims and/or drawings which have g rectifications made before this Authority		
☐ This report is also acco	mpanied by ANNEAES, i.e. sheet the basis for this report and/or st	neets containing	g rectifications made before this Authority er the PCT).		
(see Rule 70.16 and Se	the basis for this report and/or si ection 607 of the Administrative Ir	etructions unde	er tile rotj.		
These annexes consist of a t	otal of sheets.				
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3. This report contains indication	ons relating to the following items	•			
l ⊠ Basis of the opin	ion	-			
II ☐ Priority		le inventive etc	en and industrial applicability		
	ent of opinion with regard to nove	ity, inventive st	sp and medical safe,		
IV □ Lack of unity of	invention	ogard to novelt	y, inventive step or industrial applicability;		
∨ ⊠ Reasoned state citations and ex	ment under Rule 66.2(a)(ii) with in planations supporting such stater	nent	,,		
VI ☐ Certain docume	ents cited				
VII Certain defects	in the international application				
VIII	ations on the international applica	tion			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/14381

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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages							
	1-8		as originally filed						
	Cla	Claims, Numbers							
	1-14	4	as originally filed						
2.	With lang	h regard to the langu guage in which the int	egard to the language , all the elements marked above were available or furnished to this Authority in the ge in which the international application was filed, unless otherwise indicated under this item.						
	The	ailable or furnished to this Authority in the following language: , which is:							
		the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).							
			ication of the international application (under Rule 48.3(b)).						
			inslation furnished for the purposes of international preliminary examination (under						
3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, international preliminary examination was carried out on the basis of the sequence listing:								
		contained in the inte	rnational application in written form.						
		filed together with th	e international application in computer readable form.						
		furnished subsequer	atly to this Authority in written form.						
		furnished subsequently to this Authority in computer readable form.							
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.						
4.	The	amendments have r	esulted in the cancellation of:						
		the description,	pages:						
		the claims,	Nos.:						
		the drawings,	sheets:						
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this						
6.	. Additional observations, if necessary:								

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-14

Inventive step (IS)

Yes: Claims

No: Claims

1-14

Industrial applicability (IA)

Yes: Claims

1-14

No: Claims

2. Citations and explanations

see separate sheet

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INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP 03/14381

1. Each of

- D1 WO-A-01 70436, Example 2,
- D2 US-A-5 634 189, Fig. 1 and description relating thereto,
- D3 US-A-6 241 469, Fig. 1 and description relating thereto,
- D4 US-A-2002 172 836, claims 1-13,

relates to a PM-made or -processed component having a porous region formed from a metal alloy comprising an intermetallic phase or solid solution as well as a nonporous (areal fluid-tight) region formed from a metal, a metal alloy, an intermetallic phase or a solid solution.

D1 discloses a composite formed from a massive (non-porous) bar of TiNi and a mixture of elemental powders of Ti and Ni by compaction and an adjoining reaction sintering process. The produced bar has a massive core which is covered by a porous coating of TiNi.

D2 discloses a PM-made piston having a solid, dense, fluid-tight outer shell 2 of compactly sintered powder and a porous core 3, the porosity thereof increasing in the direction to the centre. According to D2, paragraph bridging columns 4, 5, the powder particles of the core 3 and the shell 2 consist in part of the metallic components of an intermetallic compound in amounts according to stoichiometric relationship such that the entire component consists of an intermetallic compound after the sintering process which is performed at the necessary reaction temperature.

D3 discloses a turbine blade, the leading edge part 4 of its metal body being covered by a protective coating 10 of a pressed and sintered intermetallic felt of Fe- or Nialuminide.

D4 discloses a composite sintered bearing contact component comprising a porous sintered iron base alloy comprising at least one of Al, Si, Co, Ni, Cu in the form of an intermetallic compound and having a porosity of 5-35 vol.-%, the said porous layer being sinter bonded to a solid (cylindrical or sheet-like) metal backing, e.g. in the form of a steel pipe.

- Each of D1-D4 takes away novelty from the subject-matter of independent claims 1 2. and 14. The same objection applies to dependent claims 4, 7 and 9.
 - The subject-matter of independent claims 10 and 13 is not novel in view of D2.
 - The same objection applies to dependent claims 2, 6, 8, 11 and 12.
 - Dependent claim 3 lacks novelty in view of D1.
 - Dependent claim 5 lacks novelty in view of D3.
- It is remarked that a powder cannot be characterized by its "sintering activity obtained 3.

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INTERNATIONAL PRELIMINARY International application No. PCT/EP 03/14381 EXAMINATION REPORT - SEPARATE SHEET

by high-energy milling", cf. claim 11.

A reason for that can be found in the Examination Guidelines CIII 4.7b requiring that only process steps which can be detected on the powder in the form of features doubtlessly following from the claimed process, which features have to be shown by the Applicant himself, can distinguish the powder mentioned in the claim from known powders.